

[illegible]

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R A Q K R V G F A A S P C A E I A G A A
GTGTCTGAATTTCCGGGGCTTTCTCAACAGAGGATGTAGCCAGCAACTGTGTCCCGCT
V S E I S G P F S T E D V A S N C V P A
CAGTGTGTAGCCGACCCATTGTGTGATTTGTCTCATCGCTCAACGCGTCTGTGGA
Q S L S E S E P I L W I V S Y A L M S V C G
GCCATCTCTCTTGTCTTAATCGTCTCTGCTGTCTGCTGCCGTTCCGGTGTCAAGCTCGCC
A I L L L V L L I V L L L L L P F R C G R R P
CGTGACCTTGAGTCTCAATGATGAGTCTCTCTGGTCAGACATCGCTGGAAATGAATA
R D P E V V N D E T S C L V R H R W K
GCCAGCGCTGACCTCAAGCAACCATGAACCTCAGCTATTAAAGAAAATCACATTTCCAGGGC
AGCAACAGATTCAGTGTGGCGCTTCTTCCTGCGCCCAACCGGCTCTCAATCTGTGTCT
GCTCCAGATGCTCTAGATCTACTGCTTTTGTATCTTGATTTCAAGCGTTTCAATTC
CTGCCCTACTTCCAGAAAAATTAATTAAAAAATAAATCTCATTTCTAAACAAAAA
AAAA

FIGURE 2 (1)

ATGGCCCAAGCCCTGCCCTGGCTCCTGCTGTGGATGGGCGGGGAGTGTGCTGCTGCCAC
M A Q A L P W L L L W M G A G V L P A H
GGCAUCCAGCACGGCATCCGGCTGCCCTGCGCAGCGGCTGGGGGGCGCCCCCTGGGG
G T Q H G I R L P L R S G L G G A P L G
CTGCGGCTGCCCCGGGAGACCGACGAAGAGCCCGAGGAGCCCGGCGGAGGGGCA3CTTT
L R L P R E T D E E P E E P G R R G S F
GTGGAGATGGTGGACAACCTGAGGGGCAAGTCGGGGCAGGGCTACTACGTGGAGATGACC
V E M V D N L R G K S G Q G Y Y V E M T
GTGGGCAGCCCCCGCAGACGCTCAACATCCTGGTGGATACAGGCAGCAGTAACCTTGCA
V G S P P Q T L N I L V D T G S S N F A
GTGGGTGCTGCCCCCACCCTTCCTGCATCGCTACTACCAGAGGCAGCTGTCCAGCACA
V G A A P H P F L H R Y Y Q R Q L S S T
TACCGGGAUCCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
Y R D L R K G V Y V P Y T Q G K V E G E
CTGGGCACCGACCTGTAAGCATCCCCCATGGCCCCAACGTCACGTGTGCGTGCCAACAT
L G T D L V S I P H G P N V T V R A N I
GCTGCCATCACTGAATCAGACAAGTTCTTCATCAACGGCTCCAACCTGGGAAGGCATCCTG
A A I T E S D K F F I N G S N W E G I L
GGGTGGCCTATGCTGAGATTGCCAGGCTTTGTGGTGCTGGCTTCCCCCTCAACCACTCT
G L A Y A E I A R L C G A G F P L N Q S
GAAGTGCTGGCCTCTGTGCGAGGGAGCATGATCATGAGGTATCGACCACTCGCTGTAC
E V L A S V G G S M I I G G I D H S L Y
ACAGGCAGTCTCTGGTATACACCCATCCGGCGGGAGTGGTATTATGAGGTGATCATTGTG
T G S L W Y T P I R R E W Y Y E V I I V
CGGGTGGAGATCAATGGACAGGATCTGAAATGGACTGCAAGGAGTACAACATATGACAAG
R V E I N G Q D L K M D C K E Y N Y D K
AGCATTGTGGACAGTGGCACCACCAACCTTCGTTTGGCCCAAGAAAGTGTGTAAGCTGCA
S I V D S G T T N L R L P K K V F E A A
GTCAAATCCATCAAGGCAGCCTCCTCCACGGAGAAGTTCCCTGATGGTTTCTGGCTAGGA
V K S I K A A S S T E K F P D G F W L G
GAGCAGCTGGTGTGCTGGCAAGCAGGCACCAACCCCTTGGAAACATTTCCCACTCATCTCA
E Q L V C W Q A G T T P W N I F P V I S
CTCTACCTAATGGGTGAGGTTACCAACCAAGTCCTTCGGCATCACCATCCTTCGCGAGCAA
L Y L M G E V T N Q S F R I T I L P Q Q
TACCTGCGGCCAGTGGGAAGATGTGGCCACGTCCCAAGACGACTGTTACAAGTTTGCCATC

Y L R P V E D V A T S Q D D C Y K F A I

TCACASTCATCCACGGGCAGTCTTATGGGAGCTGTIATCATGGAGGCGCTTCTACGTTGTC
S Q S S T G T V M G A V I M E G F Y V V

TTTGATCGGGCCCGAAAACGAATTGGCTTTGCTGTGCAGCGCTTGCCATGTGCACGATGAG
F D R A R K R I G F A V S A C H V H D E

TTTCAGGACGGCAGCGGTGGAAGGCCCTTTGTGCACCTTGGACATGGAAGACTGTGGCTAC
F R T A A V E G P F V T L D M E D C G Y

AACATTTCCACAGACAGATGAGTCAACCCCTCATGACCATAGCCTATGTCATGGCTGCCATC
N I P Q T D E S T L M A T I A Y V M A A I

TGCGCCCTCTTCATGCTGCCCATCTGCCCATGGTGCTGAGTGGCGGTGCCCTCCGCTGC
C A L F F M L P L C L L M V S Q W R C L R C

CTGCGCCAGCAGCATGATGACTTTGCTGTATGACATCTCCCTGCTGAAGTGAGGAGGCCCA
L R Q Q H D D F A D D I S L L K

TGGCCAGAAGATAGAGATTCCCTGGACCACACCTCCGTGGTTCACTTTGGTCACAAGTA
GGAGACACAGATGGCACCTTGGGCCAGAGCACCTCAGGACCCCTCCCAACCCCAAGATGC
CTCTGCCCTTGATGGAGAAGGAAAAGGCTGGCAAGTGGGTTCCAGGACGTATCTCTGTAG
GAAACAGAAAAGAGAAGAAAGAGCACTCTGCTGGCGGGAATACTCTTTGGTCACCTCAAA
TTTAAGTCGGGAAATCTGCTGCTGTGAAACCTTCAGCCCTGAACCTTTGTCCACCATTCCT
TGAATTTCTCCAACCTCAAGATATTCTCTTTCTTTAGTTTTCAGAAGTACTGGCATGCAAG
GCAGCTTACCTTTGGCGTGTGTCCCTGTGTGGTACCTCGGCCAGAGAAGACCAAGCTTTGTTT
CCCTGCTGGCCAAAGTCATAGGAGAGGATGCACAGTTTGTCTTATTTGCTTTTAGAGACAGG
CACTGTATATAAACCAAGCTCAATGCTGGTGCAAAAGATGCTCTTTGAAAAAATAAAAAA

FIGURE 3 (1)

ATGGCCCAAGCCCTGCCCTGGCTCCTGCTGATGGCGCGGGAGTGCTGCCCTGCCAC
M A Q A L P W L L L W M G A G V L P A H
GGCACCAGCACGGCATCCGGCTGCCCCTGCGCAGCGCCCTGGGGGCGCCCCCTGGGG
G T Q H G I R L P L R S G L G G A P L G
CTGGCGCTGCCCGGGAGACCGACGAAGAGCCCGAGGAGCCCGCGGAGGGGGCAGCTTT
L R L P R E T D E E P E E P G R R G S F
GTGGAGATGGTGACAACCTGAGGGGCAAGTCGGGGCAGGGGCTACTACGTGGAGATGACC
V E M V D N L R G K S G Q G Y Y V E M T
GTGGGCAGCCCCCGCAGACGCTCAACATCCTGGTGGATACAGGCAGCAGTAACCTTTGCA
V G S P P Q T L N I L V D T G S S N F A
GTGGGTCTGCCCCCCCCCTTCTGCTGCTACTACCAGAGGCAGCTGTCAGCACA
Y G A A P H P F L H R Y Y Q R Q L S S T
TACCGGGACCTCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAASTGGGAAGGGGAG
Y R D L R K G V Y V P Y T Q G K W E G E
CTGGGCACCGACCTGGTAAGCATCCCCATGGCCCCAACGTCACCTGTGCGTGCCAACTT
L G T D L V S I P H G P N V T V R A N I
GCTGCCATCACTGAATCAGACAAGTTCTTCATCAACGGCTCCAACTGGGAAGGCATCTG
A A I T E S D K F F I N G S N W E G I L
GGGCTGGCCTATGCTGAGATTGCCAGGCCTGACGACTCCCTGGAGCCTTTCTTTGACTCT
G L A Y A E I A R P D D S L E P F F D S
CTGGTAAAGCAGACCCACGTTCCCAACCTCTTCTCCCTGCAGCTTTGTGGTGCTGGCTTC
L V K Q T H V P N L F S L Q L C G A G F
CCCCCAACCACTCTGAAGTGCTGGCCTCTGTGCGAGGGAGCATGATCATTGGAGGTATC
P L N Q S E V L A S V G G S M I I G G I
GACCACTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGGAGTGGTATTAT
D H S L Y T G S L W Y T P I R R E W Y Y
GAGGTCACTATTGTGCGGGTGGAGATCAATGGACAGGATCTGAAAATGGAAGTCAAGGAG
E V I I V R V E I N G Q D L K M D C K E
TACAACTATGACAAGAGCATTGTGGACAGTGGCACCACCAACCTTCGTTTGGCCCAAGAAA
Y N Y D K S I V D S G T T N L R L P K K
GTGTTTGAAGCTGCAGTCAATCCATCAAGGCAGCCTCCTCCAGGAGAAGTTCCTGAT
V F E A A V K S I K A A S S T E K F P D

FIGURE 3 (2)

GGTTTCTGGCTAGGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACCACCCCTTGGAACTT
G F W L G E Q L V C W Q A G T T P W N I
TTCCCAGTCATCTCACTCTACCTAATGGGTGAGGTTACCAACCAGTCCTTCGGCATCACC
F P V I S L Y L M G E V T N Q S F R I T
ATCCTTCCGCAGCAATACCTGCGGCCAGTGGAAGATGTGGCCACGTCCCAAGACGACTGT
I L P Q Q Y L R P V E D V A T S Q D D C
TACAAAGTTTGCCATCTCACAGTCATCCACGGGCACTGTTATGGGAGCTGTTATCATGGAG
Y K F A I S Q S S T G T V M G A V I M E
GGCTTCTACGTTTGTCTTGTATCGGGCCCGAAAACGAATTGGCTTTGTCTGTAGCGCTTCG
G F Y V V F D R A R K R I G F A V S A C
CATGTGCACGATGAGTTGAGGACGGCAGCGGTGGAAGGCCCTTTTGTACCTTGGACATG
H V H D E F R T A A V E G P F V T L D M
GAAGACTGTGGCTACAACATTCCACAGACAGATGAGTCAACCCTCATGACCATAGCCTAT
E D C G Y N I P Q T D E S T L M T I A Y
GTCATGGCTGCCATCTGCGCCCTCTTCATGCTGCCACTCTGCCTCATGGTGTGTGAGTGG
V M A A I C A L F M L P L C L M V C Q W
CGCTGCCTCCGCTGCTGCGCCAGCAGCATGATGACTTTGCTGATGACATCTCCCTGCTG
R C L R C L R Q Q H D D F A D D I S L L
AAGTGAGGAGGCCCATGSGCAGAAGATAGAGATTCCCCTGGACCACACCTCCGTGGTTCA
K
CTTTGGTCACAAGTAGGAGACACAGATGGCACCTGTGGCCAGAGCACCTCAGGACCCCTCC
CCACCCACCAATGCCTCTGCCTTGATGGAGAAGGAAAAGGCTGGCAAGGTGGGTTCCAG
GGACTGTACCTGTAGGAAACAGAAAAGAGAAGAAAGAACACTCTGCTGSGCGGAATACT
CTTGGTCACCTCAAATTTAAGTCGGGAAATTCCTGCTGCTTGAACTTCAGCCCTGAACCT
TTGTCCACCATTCCTTTAAATTCTCCAAACCAAGTATTCTTCTTTCTTAGTTTCAGAA
GTACTGGCATCACACGCAGGTTACCTTGGCGTGTGTCCTGTGGTACCTTGGCAGAGAAG
AGACCAAGCTTGTTCCTCTGCTGGCCAAAGTCAGTAGGAGAGGATGCACAGTTTGTCTATT
TGCTTTAGAGACAGGGACTGTATAACAAGCCTAACATTGGTGCAAGATTGCCTCTTGA
ATTAATAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 5

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1 MAQALPWLILLWVGAGVLPAGHTQHGIRLPLRSGLGGAPLGLRLPRETDEE 50
  |||||
1 MAPALHWLILLWVGSGMLPAQGTHLGIRLPLRSGLAGPPLGLRLPRETDEE 50
  |||||

51 PEEPGRGSGFVEMVDNLRGKSGQGYVEMTVGSPQTNLNILDVTGSSNFA 100
  |||||
51 SEEPGRGSGFVEMVDNLRGKSGQGYVEMTVGSPQTNLNILDVTGSSNFA 100
  |||||

101 VGAAPHFPLHRYYCQLSSTYRDLRKGYYVPYTOGKWEGLGTDLVSIPH 150
  |||||
101 VGAAPHFPLHRYYCQLSSTYRDLRKGYYVPYTOGKWEGLGTDLVSIPH 150
  |||||

151 GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDSDLFFDS 200
  |||||
151 GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDSDLFFDS 200
  |||||

201 LVKQTHVFNPLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSW 250
  |||||
201 LVKQTHVFNPLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSW 250
  |||||

251 YTPIRREWYEVITVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRPKK 300
  |||||
251 YTPIRREWYEVITVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRPKK 300
  |||||

301 VFEEAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG 350
  |||||
301 VFEEAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG 350
  |||||

351 EVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSGTVMGAVIME 400
  |||||
351 EVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSGTVMGAVIME 400
  |||||

401 GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT 450
  |||||
401 GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT 450
  |||||

451 DESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQHDDFADDISLL 500
  |||||
451 DESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQHDDFADDISLL 500
  |||||

501 K 501
  |
501 K 501

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FIGURE 6 (1)

ATGGCTAGCATGACTGCTGGACAGCAAAATGGGTGCGGATCCACCCAGCAGGSCATCCGG
 M A S M T G G Q Q M G R G S T Q H G I R
 CTGCCCCCTGCCACGCGGCTGGGGGGCCCTCCCTGGGGCTGGGGCTGCCCCGGGAGACC
 L P L R S G L G G A P L G L R L P R E T
 GACGAAGAGCCCGAGGAGCCCGGCGGAGGGGCGAGCTTTGTGGAGATGGTGGACAACCTG
 D E E P E E P G R R G S F V E M V D N L
 AGGGGCAASTCGGGGAGGGCTACTACGTGGAGATGACCTGGGGCAGCCCCCGCAGAGC
 R C K S C Q C Y Y V E M T V C S P P Q T
 CTCACATCCTGGTGATACAGGCAGCAGTAACCTTGCAGTGGTGGTCCCCCAGCCCC
 L N I L V D T G S S N F A V G A A P H P
 TTCCTGCATCGCTACTACAGAGGCGAGCTGTCCAGCACATACCGGGACCTCCGGAAGGGC
 F L H R Y Y Q R Q L S S T Y R D L R K G
 GTGTATGTGCTTACACCCAGCCCAAGTCGGAAGGGGAGCTGGGCAAGGACCTGTAAAC
 V Y V P Y T Q G K W E G E L G T E L V S
 ATCCCCCATGCGCCCAACGTCACCTGTGCGTGCCCAACATTGCTGCCATCAGTAATCAGAC
 I P H G P N V T V R A N I A A I T E S D
 AAGTTCTTCATCAACGGCTCCAACTGGGAAGGCATCTGGGGCTGGCTATGCTGAGATT
 K F F I N G S N W E G I L G L A Y A E I
 GCCAGGCTGACGACTCCCTGGAGCCTTTCTTTGACTCTCTGTAAGCAGACCCACGTT
 A R P D D S L E P F F D S L V K Q T H V
 CCCAACCTCTTCTCCCTGCAGCTTTGTGGTGGTGGCTTCCCCCTCAACAGCTGGAAGTG
 P N L F S L Q L C G A G F P L N Q S E V
 CTGGCCTCTGTGGAGGGAGCATGATCATGGAGGTATCGACCACTCGCTGTACACAGSC
 L A S V G G S M I I G G I D H S L Y T G
 AGTCTCTGGTATACACCCATCCGGCGGGAGTGGTATTATGAGGTATCATTTGTGGGGTG
 S L W Y T P I R R E W Y Y E V I I V R V
 GAGATCAATGACAGCATCTGAAAAATGGACTGCAAGGAGTACAACATGACAAGAGCATT
 E I N G Q D L K M D C K E Y N Y D K S I
 CTGGACAGTGGCACCACCAACCTTCCTTGGCCCAAGAAAGTGTGTGAAGCTGCACTCAAA
 V D S G T T N L R L P K K V F E A A V R
 TCCATCAAGGCGAGCTCTCCACGGAGAAGTTCCCTGATGGTTCTGGCTAGGAGAGCAG
 S I K A A S S T E K F P D G F W L G E Q
 CTGGTGTGCTGSCAAGCAGGCACCCCTTGGAAACATTTCCCACTCATCTCACTTAC
 L V C W Q A G T T P W N I F P V I S L Y
 CTAATGGGTGAGGTTACCAACAGTCCTTCCGCATCACCATCCTTCCGAGCAATACCTG
 L M G E V T N Q S F R I T I L P Q Q Y L
 CGGCGAGTGAAGATGTGGCCACGTCCCAAGACGACTGTTACAAGTTTCCCATCTCACAG

FIGURE 6 (2)

R P V E D V A T S Q D D C Y R F A I S Q
TCATCCACGGCCACTGTTATCCCACTCTTATCATCCAGGCGCTTCTACCTTGTCTTTCAT
S S T G T V M G A V I M E G F Y V V F D
CGGGCCCGAAAAAGAAATGGCTTTGCTGTCAGCGCTTGCCATGTGCACGATGAGTTCAGG
R A R K R I G F A V S A C H V H D E F R
ACGGCAGCGGTGGAAGGCCCTTTGTCACCTTGGACATGGAAGACTGTGGCTACAACATT
T A A V E G P F V T L D M E D C G Y N I
CCACAGACAGATGAGTCAAGA
P Q T D E S *

FIGURE 7 (1)

ATGGCTAGCATGACTGCTGGACAGCAAAATGGCTGCGGATCGATGACTATCTCTGACTCT
 M A S M T G G Q Q M C R C S M T I S D S
 CCGCGTGAACAGGACGGATCCACCCAGCAGGCATCGGGCTGCCCCCTGCGCAGCGCCCTG
 P R E Q D G S T Q H G I R L P L R S G L
 GCGCGCGCTCCCCCTGCGGCTGCGGCTGCCCCCGGAGACCCGACGAAGACCCGAGGACCC
 G G A P L G L R L P R E T D E E P E E P
 GCGCGGAGGCGCAGCTTTCTGGACATCTCTGGACAACTGAGGCCCAACTCGCGGCGAGGGC
 G H R G S F V E M V D N L R G K S G Q G
 TACTACGTGGAGATGACCGTGGGCGAGCCCCCGGAGACGCTCAACATCTCTGGTGGATACA
 Y Y V E M T V G S P P Q T L N I L V D T
 GGCAGCAGTAACITTTGCGTGGGTGCTGCCCCCAGCCCTTCTGCACTGCTACTACAG
 G S S N F A V G A A P H P F L H R Y Y Q
 AGGCAGCTGTCTCAGCATAACCGGACCTCCGGAAGGGCGTGTATGTGCTTACACCCAG
 R Q L S S T Y R D L R R G V Y V P Y T Q
 GCGAAGTGGGAGGGGAGCTGGGCGACCGACCTGTAAGCATCCCCCATGCGCCCAACGTC
 G K W E G E L G T D L V S I P H G P N V
 ACTGTGCTGCCAACATTGCTGCCATCACTGAATCAGACAAGTTCTTCATCAACGGCTCC
 T V R A N I A A I T E S D K F F I N G S
 AACTGGGAAGGCATCTTGGGGCTGGGCTATGCTGAGATTGCCAGGCTGAGGACTCCCTG
 N W E G I L G L A Y A E I A R P D D S L
 GAGCCTTCTTTGACTCTCTGTAAGCAGACCCAGCTTCCCAACTCTTTCTCCCTGACG
 E P F F D S L V K Q T H V P N L F S L Q
 CTTCTGTGCTCTGGCTTCCCCCTCAACCACTCTGAACTGCTGGGCTCTGTGCGAGGGAGC
 L C G A G F P L N Q S E V L A S V G G S
 ATGATCATGGAGGTATCGACCACTCGCTGTACACAGGCAGTCTCTGGTATACACCCATC
 M I I G G I D H S L Y T G S L W Y T P I
 CGCGGGAGTGGTATTATGAGGTCACTATTGTGCGGCTGGAGATCAATGGACAGGATCTG
 R R E W Y Y E V I I V R V E I N G Q D L
 AAAATGGACTGCAAGGAGTACAATATGACAAGAGCATTGTGGACAGTGGCACCACCAAC
 K M D C K E Y N Y D K S I V D S G T T N
 CTTCTTTGCCCCAAGAAAGTGTTTGAAGCTGCAGTCAATCCATCAAGGCGAGCCCTCTTC
 L R L P K K V F E A A V K S I K A A S S
 ACGGAGAAGTTCCTTGATGCTTTCTGGCTAGGAGAGCAGCTGGTGTCTGGCAAGCAGGC
 T E K F P D G F W L G E Q L V C W Q A G
 ACCACCCCTTGAACATTTTCCCACTCATCTCACTTAAATGGGTGAGGTACCAAC
 T T P W N I F P V I S L Y L M G E V T N

FIGURE 7 (2)

CAGTCCTTCGGCATCACCATCCTTCGGCAGCAATACCTGGGGCACTGGGAAGATGTGGCC
Q S F R I T I L P Q Q Y L R P V E D V A
ACGTCCCAAGACGACTGTITACAAGTTTGGCCATCTCAAGTCATCCACGGGCACTGTTATG
T S Q D E C Y K F A I S Q S S T G T V M
GGAGCTGTTATCATGGAGGGCTTCTACGTTGTCTTATCGGGCCCGAAAACGAATTGGC
G A V I M E G F Y V V P D R A R K R I G
TTTGTGTGCAGCGCTTGGCATGTGCAGGATGAGTTGAGGAGCGGAGGCTGGGAAGGCGCT
F A V S A C H V H D E F R T A A V E G P
TTTGTACCTTGGACATGGAAGACTGTGGCTACAACATTCCACAGACAGATGAGTCATGA
F V T L E M E D C G Y N I P Q T D E S *

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FIGURE 8 (2)

TACAAATTTCACATCTACAGTCATCCACGGGCACTGCTATGGGAGCTGTTATCATGGAG
Y K F A I S Q S S T G T V M G A V I M E -
GGCTTCTACGTTGTCCTTTGATCGGGCCCGAAAACGAATTGGCTTTGCTGTCAGCGGTTGC
G F Y V V F D R A R K R I G F A V S A C -
CATTAG
H "

FIGURE 9

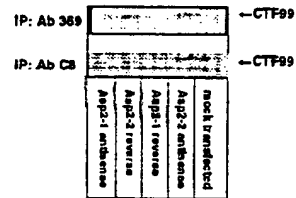


FIGURE 10

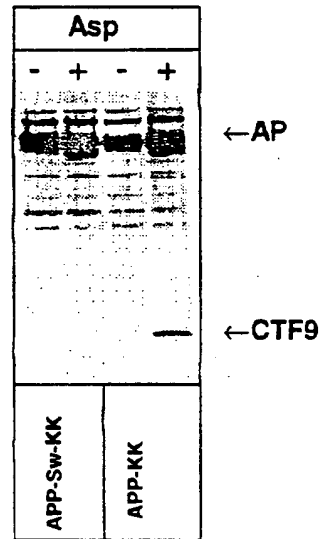


FIGURE 11

MAQALENLLWVGAGVLPAGHTOHGIRLPLRSGLGGAPLGLRLPRETDEE
PEEPGPRGSFVEMVDNLRKSGQGYVVENTVGSFPQTLNVLVDTGSSNFA
VGAAPHPLHRYYQRLSSTYRDLRKGVVVPYTGKWEDELGTDLVSIPIH
GPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDSSLEFFPDS
LVKQTHVPNLFSLQLCGAGFFLNQSEVLASVGGSMIIGGIDHSLYTGSLW
YTPIPREWYVEVIVRVEINGQDLKMDCKEYNYDKSTVDSGTTNLRPLPKK
VFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMG
EVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIME
GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQT
DES

FIGURE 12

MAQALPWLILWMGAGYLPANGTQHGIRLPLRSGLGCAPLGRLRPRETDEE
PEEPGRRGSFVEMVDNLRGKSGQGYVEMTVGSPPTLNILVDTGSSNFA
VGAAPHFPLHRYYQRLSSTYRDLRKGVYVPYTQGWEGELGTDLVSI PH
GPNVIVRANIAAITESDKFFINSSNWEGILGLAYAEIARPDDSLEPPFDS
LVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLW
YTPIRREWYVEVIIVRVEINGQDLKMDCKEYNDKSI VDSGTTNLR LPKK
VFEEAVKSIKASSTEKFPDGFWLGEQLVCWQAGTTPWNI F PVISLYLMG
EVTNQSFRTITLPQQYLRPVEDVATSQDDCYKPAISQSSTGTVMGAVIME
GFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQ
DESHHHHHH